

ARE YOU SAVED?

***Hazard Identification and Mitigation System,
an Intranet Standards-Based Expert System***

INEEL

Idaho National Engineering & Environmental Laboratory



Identifying the Problems

- ***Complex World of Government Regulations***
- ***Requirements Flow Down***
- ***Non-compliance***
- ***Mistakes affecting safety and health***
- ***Protecting the Community and Environment***
- ***Regulation Interpretation***
- ***Training***
- ***Implementation Cost***

Solving the Problems—HIM

- ***Automates Graded Approach to Standardized Work Practices***
 - ***Evaluates facility and work hazards***
 - ***Ascertains required rigor for planning***
 - ***Integrates knowledge of INEEL and DOE experts***
 - ***Implements manual checklists and processes***
- ***Technology***
 - ***Web-based system***
 - ***Multidimensional process modeling***

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Project Manager Quote Regarding HIM Process

“The system is a very important partner in the process of developing work orders; in fact it is so important to the planning process that without the electronic method, planning will slow to a crawl. It should be noted that there is a mechanism in STD-101 to create a Hazards Profile manually. However, that means evaluating 178 to 200 hundred questions (60 to 80 pages two sided for each work order). This involves going over those pages by hand to determine the hazards.”

Statistics

- ***12 to 18 Hours to complete process manually***
- ***5 to 20 minutes to complete in HIM process***
- ***Used every place maintenance is performed at INEEL***
- ***Cost savings***
 - ***Process savings, \$3.6 million annually***
 - ***Preventive cost savings, \$20 to ? million per fatality accident***
 - ***Other (graded approach, training, efficiencies, accurate processing, etc.)***
- ***Bottom line the Hazard Identification and Mitigation gets done.***

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Future Enhancements

- ***Continuous incorporation of regulatory changes***
- ***Automatically receives updated requirements from company procedure system***
 - ***Eliminate interpretation of requirements***
 - ***Rewrite procedures to be activity based***
 - ***Identify the links between each activity requirement and HIM report output***
 - ***Identify functional responsibility for the task for each requirement***
 - ***Implement***


Demonstration - HIM

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Auth - Microsoft Internet Explorer

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Address  http://webism.inel.gov/him/poauthpage.asp Links

Work Control Form Selection Screen


Enter the lastname of originator, or WCF ID# or WCF Submit Date or Work Control Center for the Work Control Form to be retrieved.


ID #	ORIGINATOR LAST NAME	SUBMIT DATE (m/d/yy)	WORK CONTROL CENTER
<input type="text"/>	<input type="text" value="hopkins"/>	<input type="text"/>	<input type="text" value="None"/>

PLANNER:

PRIMARY OWNER:

NEW SELECTION

 [Internal Home Page](#)

 [HIM Home Page](#)

Internet zone

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HPSC BLOCK B - Microsoft Internet Explorer

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Address <http://webism.inel.gov/him/himblockb.asp> Links

Hazards Profile Screening Checklist

BLOCK A- ACTIVITY INFORMATION

Activity Title:

NOTE: Make modifications to FHL selection before making any other modifications on this page!

Specific Work Location(s): [Facility Hazard List Link](#)
No Specific Work Location(s) have been identified

Sequence of Job Steps (number each step):

Quality Level: Quality Level Designation/SSC Boundaries Comments:

1 ☐

2 ☒

3 ☐

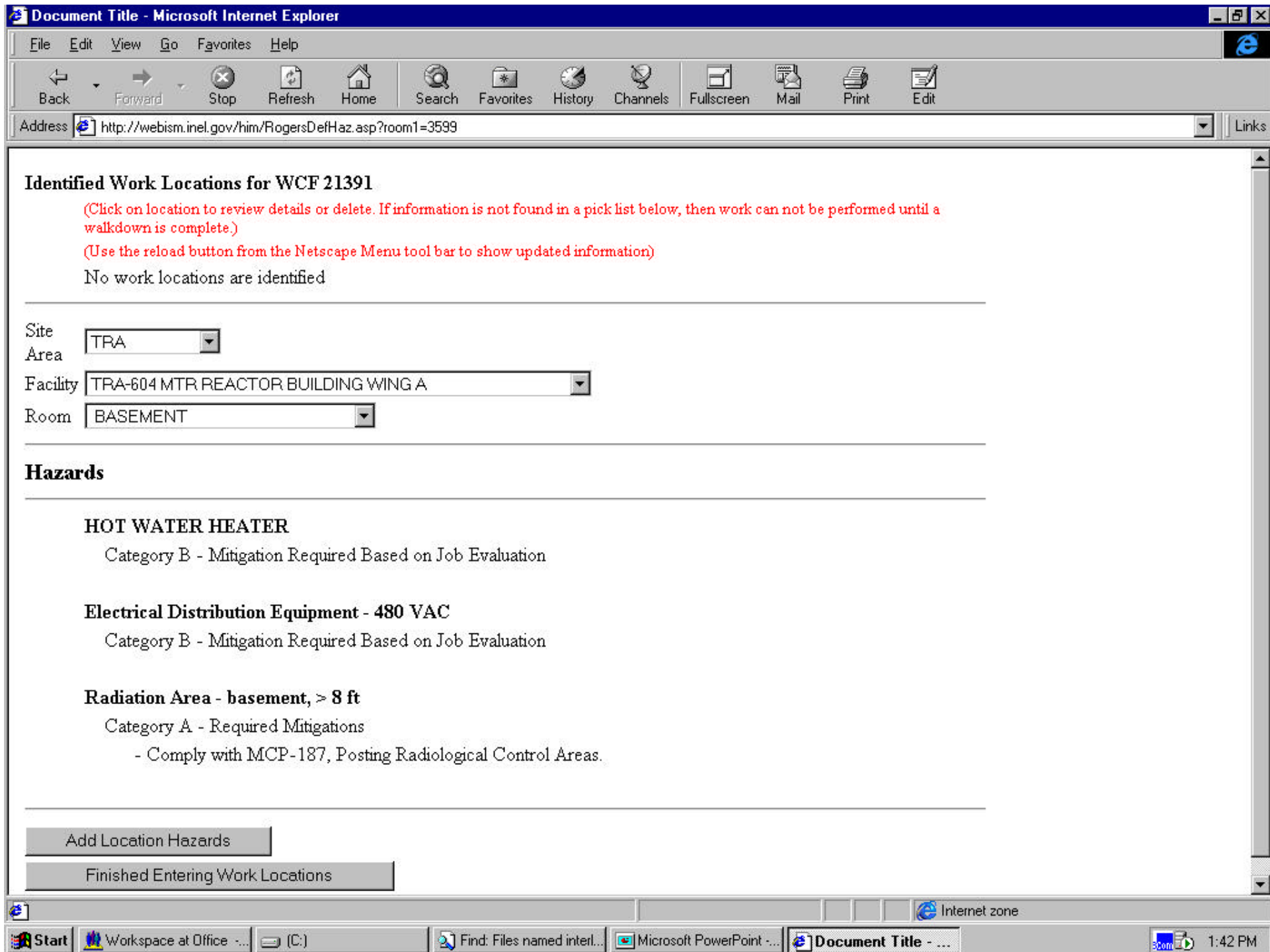
4 ☐

Hazards Profile Screening Checklist

BLOCK B - WORK ACTIVITY PRESCREEN -- Screen 1

	Comments
1. Has this activity been evaluated using the HIM Process and performed within the last 12 months, and do approved work documents, that adequately cover the applicable ESH&QA requirements, currently exist to perform the work.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="text"/>
2. Are the area conditions, processes, type of equipment, hazards, controls, and work control documents the same since the last time this work activity was performed?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="text"/>
3. Have the impacts that this specific work activity can have on, or in, the following facilities/programs, to include their authorization basis documentation requirements or controls, been determined? -Hazard Category 1/2/3 facility or its support systems -NRC-regulated program or its support systems -Environmentally permitted (RCRA, CERCLA, NESHAPs, etc.) facility or process,	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="text"/>

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Address <http://webism.inel.gov/him/himblockb.asp> Links

Hazards Profile Screening Checklist

BLOCK A- ACTIVITY INFORMATION

Activity Title:

NOTE: Make modifications to FHL selection before making any other modifications on this page!

Specific Work Location(s): [Facility Hazard List Link](#)

- TRA - TRA-604 MTR REACTOR BUILDING WING A - BASEMENT - Radiation
- TRA - TRA-604 MTR REACTOR BUILDING WING A - BASEMENT - WATER
- TRA - TRA-604 MTR REACTOR BUILDING WING A - BASEMENT - ELECTRICAL

Sequence of Job Steps (number each step):

test

Quality Level: Quality Level Designation/SSC Boundaries Comments:

1 ☐

2 ☒

3 ☐

4 ☐

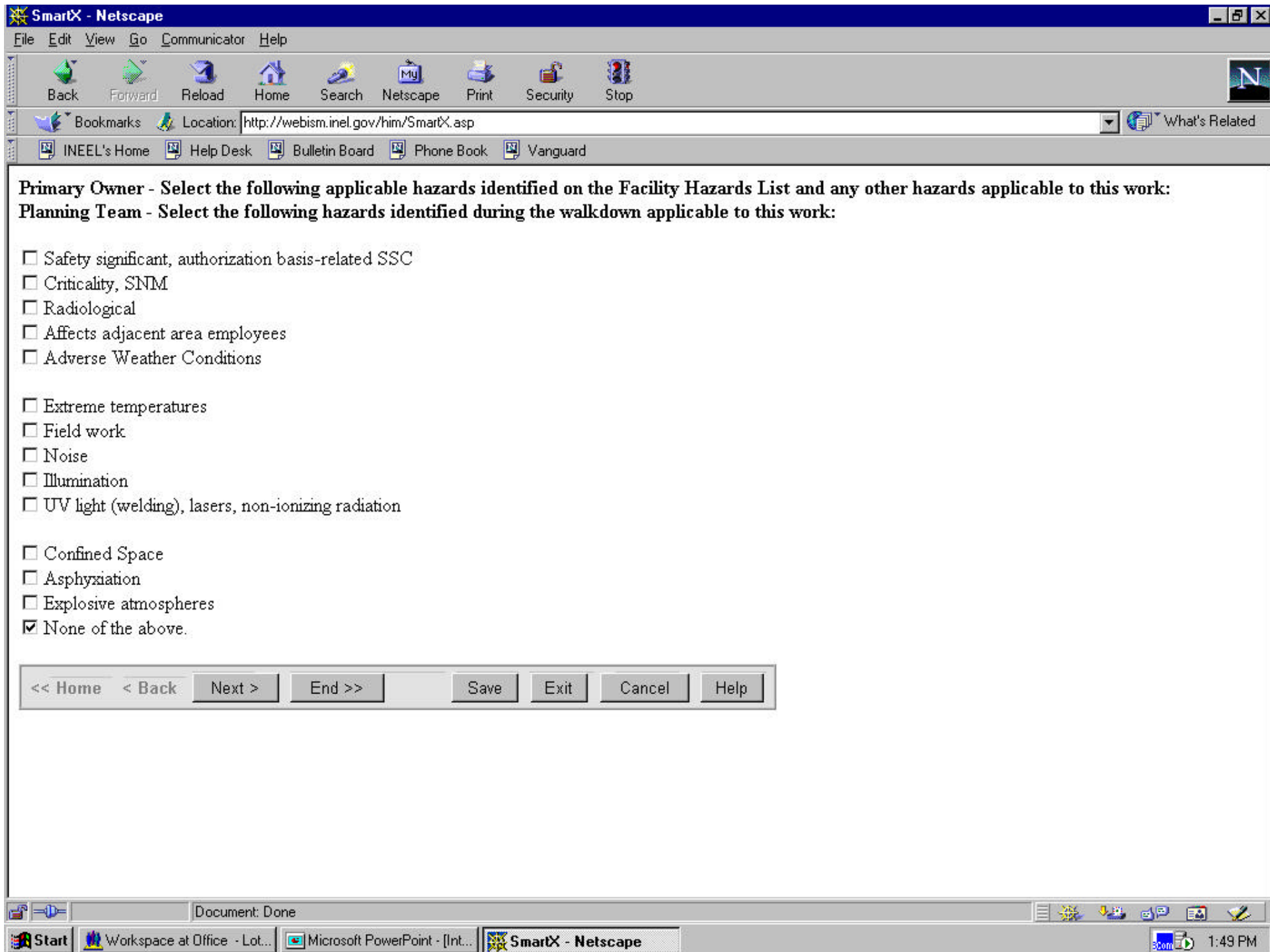
Hazards Profile Screening Checklist

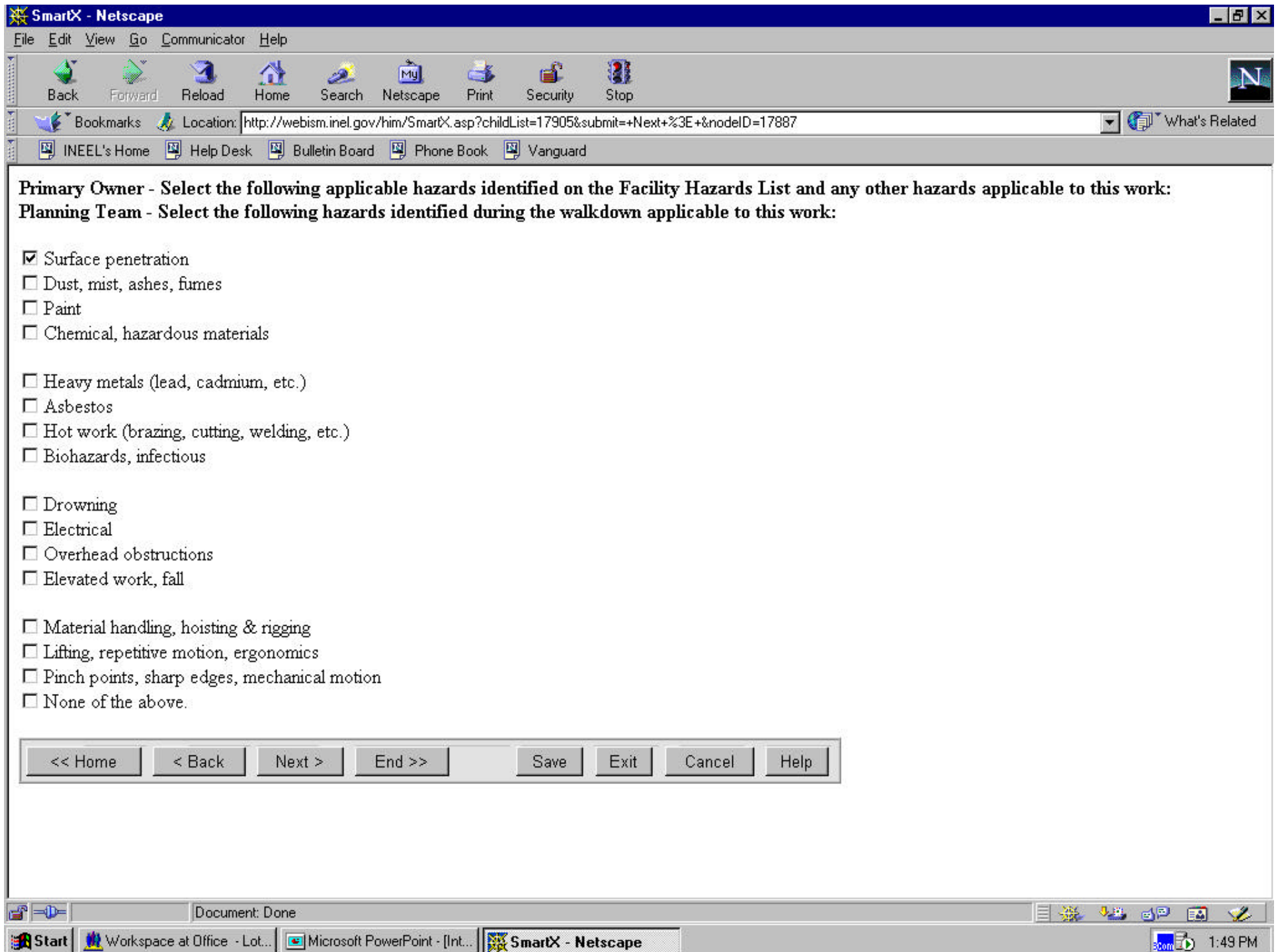
BLOCK B - WORK ACTIVITY PRESCREEN -- Screen 1

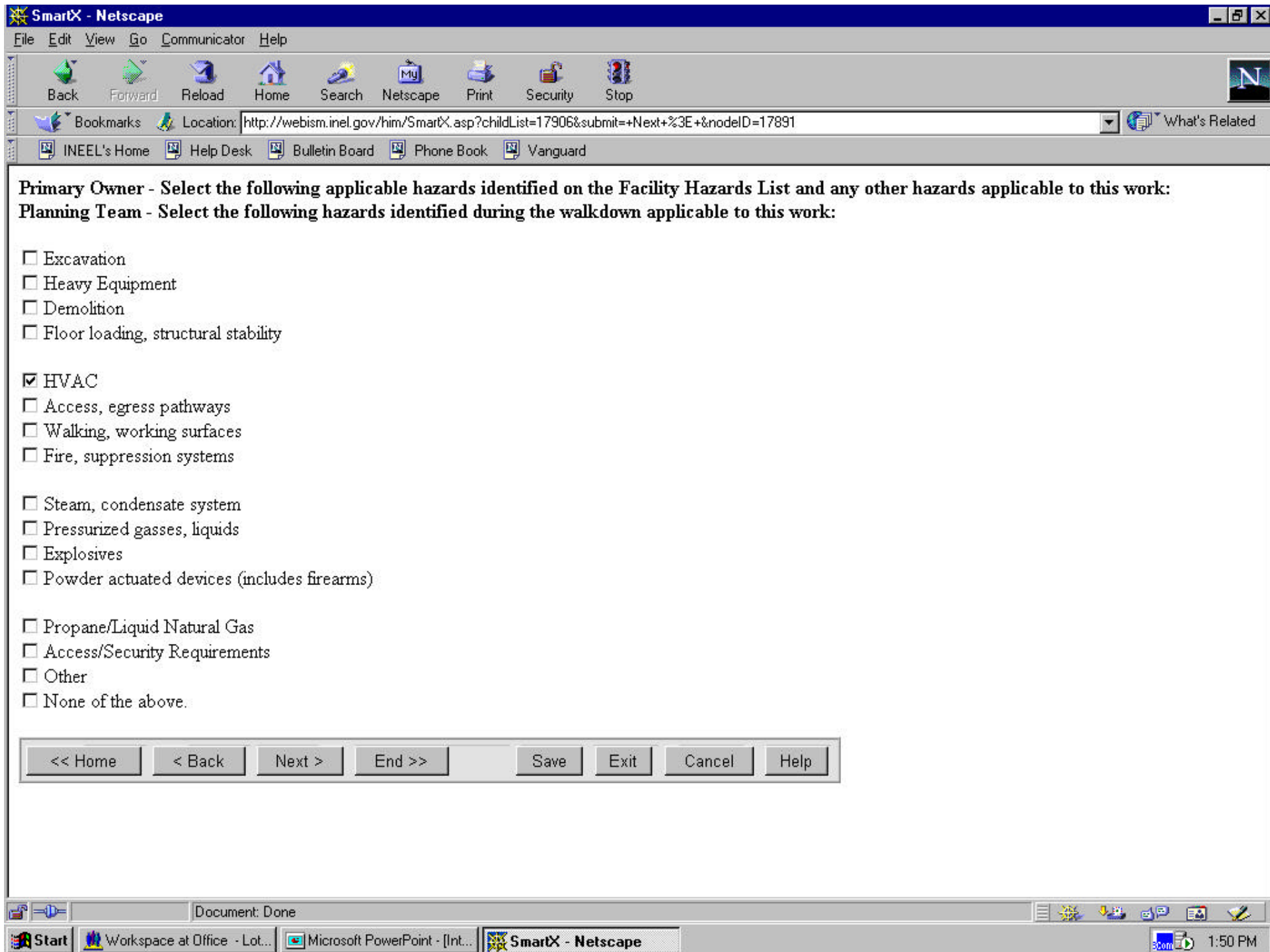
	Comments
1. Has this activity been evaluated using the HIM Process and performed within the last 12 months, and do approved work documents, that adequately cover the applicable ESH&QA requirements, currently exist to perform the work.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="text"/>
2. Are the area conditions, processes, type of equipment, hazards, controls, and work control documents the same since the last time this work activity was performed?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="text"/>

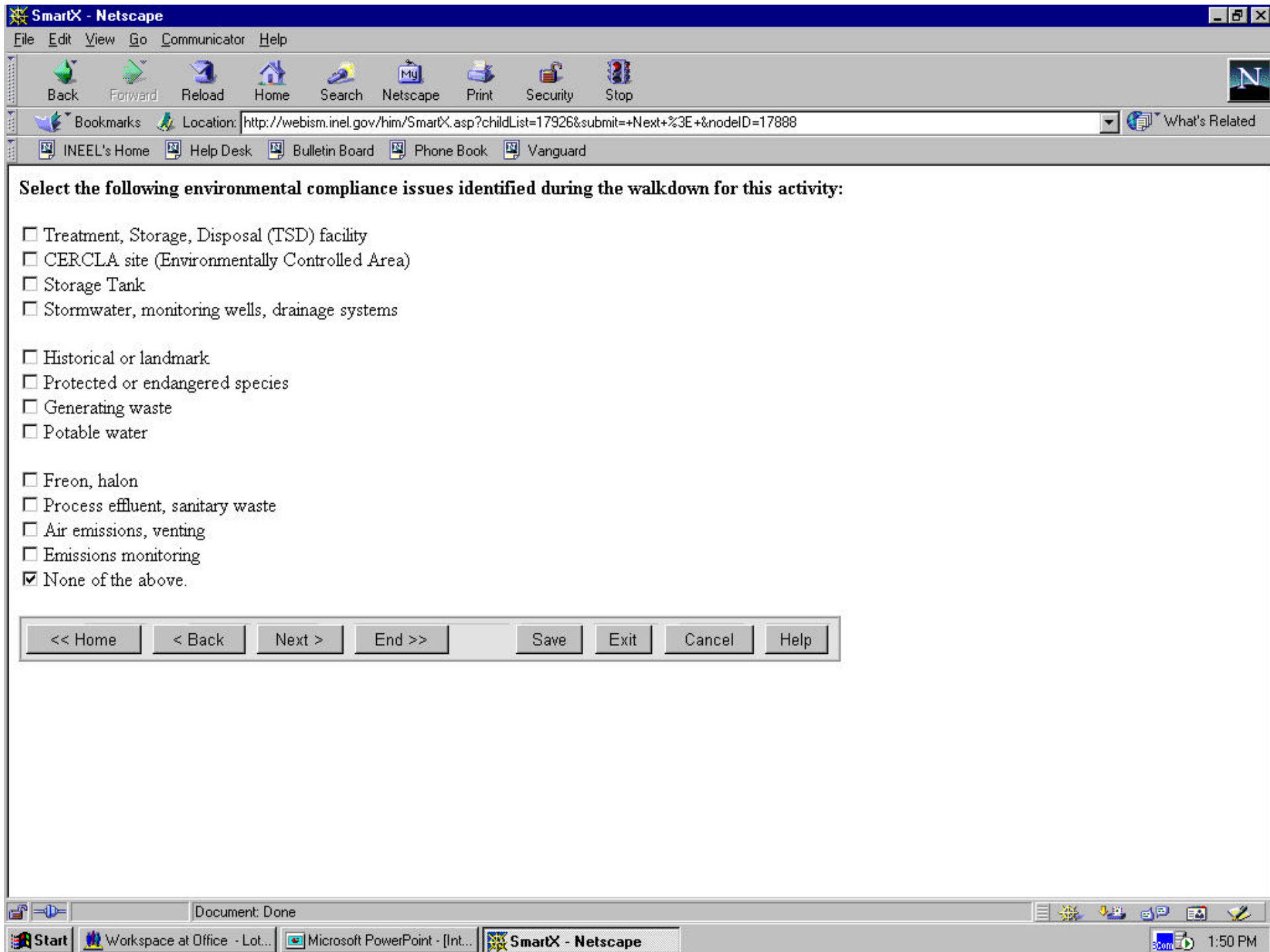
Internet zone

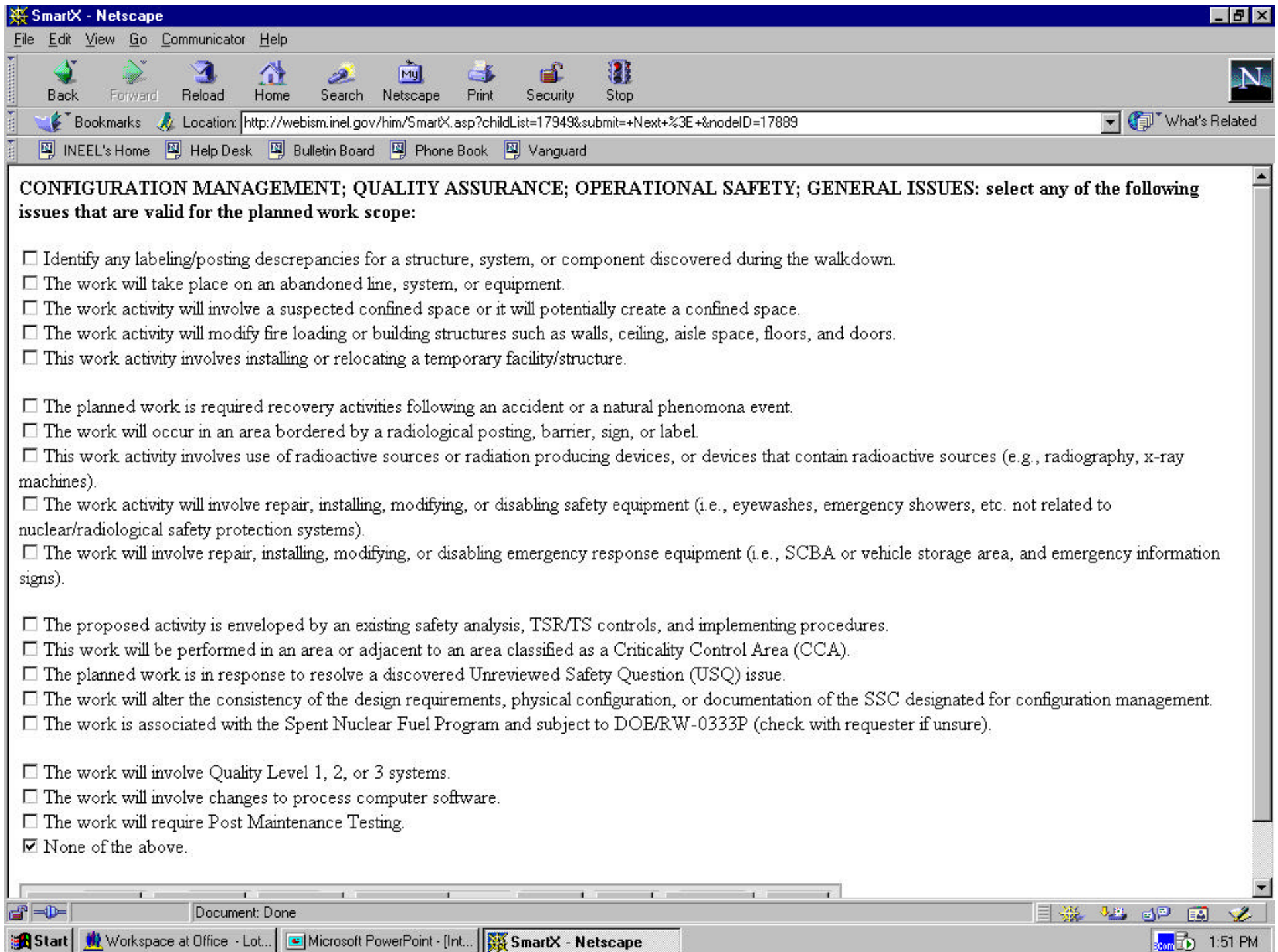
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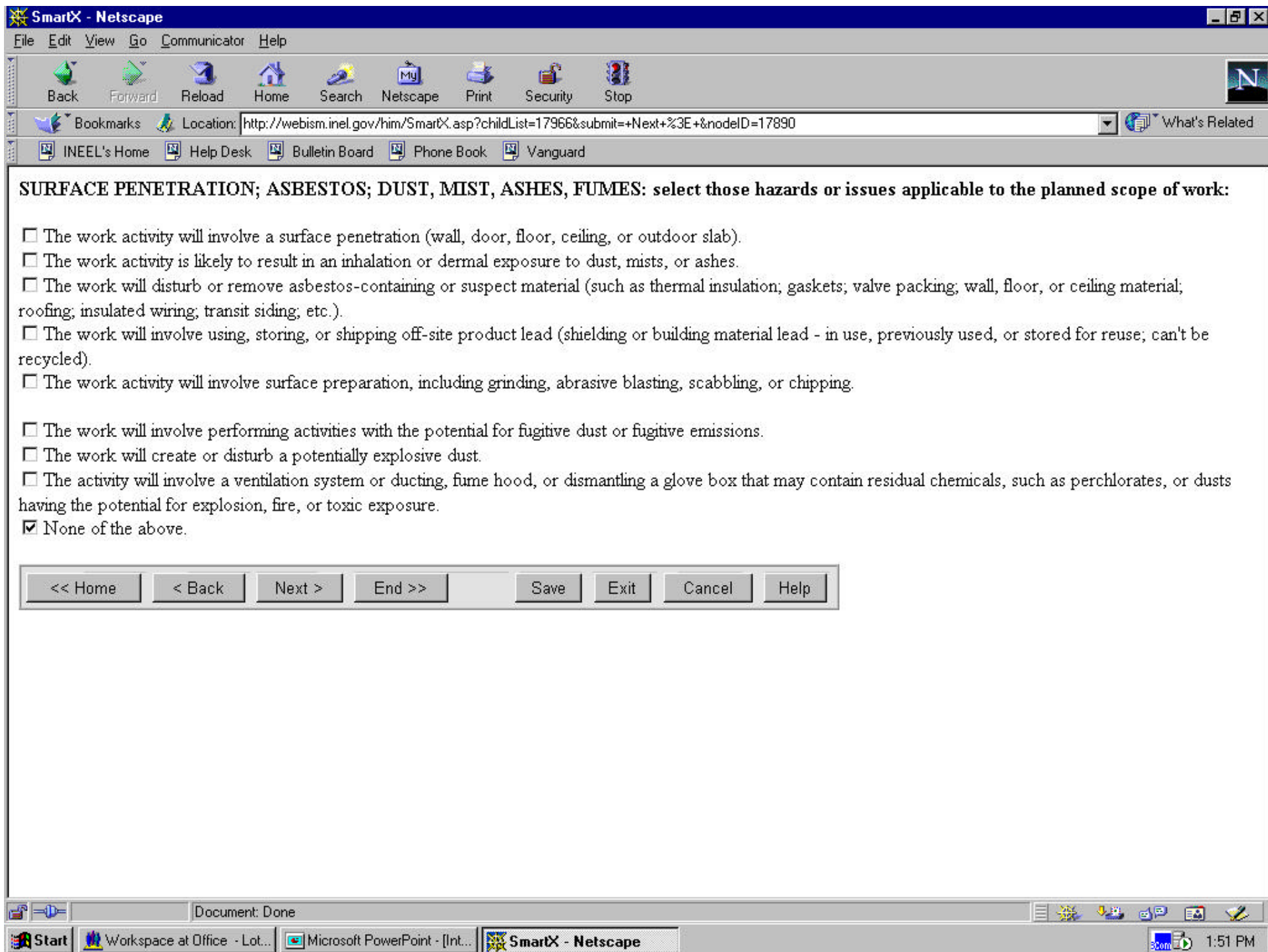
CONFIGURATION MANAGEMENT; QUALITY ASSURANCE; OPERATIONAL SAFETY; GENERAL ISSUES: select any of the following issues that are valid for the planned work scope:

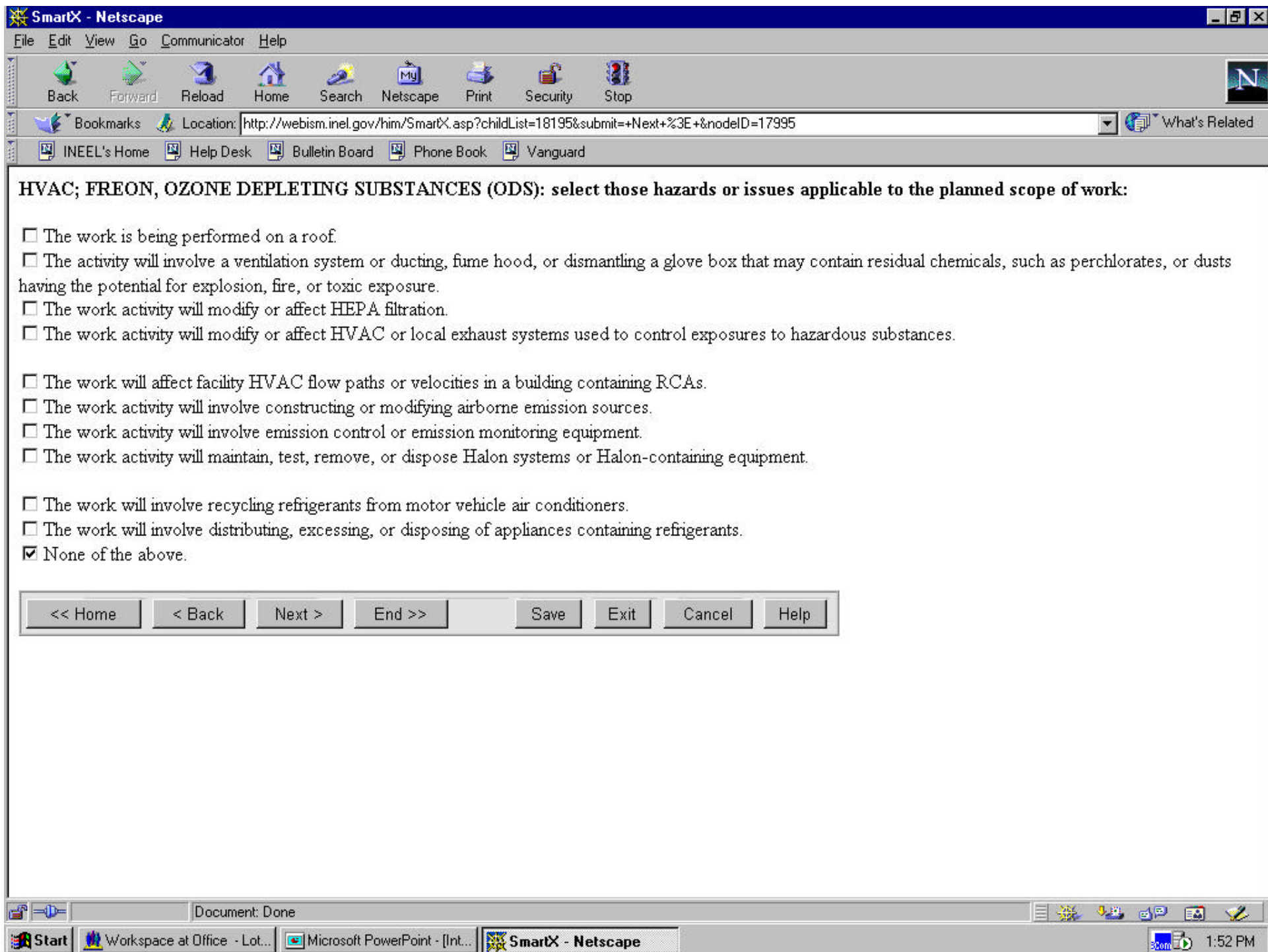
- ☐ Identify any labeling/posting discrepancies for a structure, system, or component discovered during the walkdown.
- ☐ The work will take place on an abandoned line, system, or equipment.
- ☐ The work activity will involve a suspected confined space or it will potentially create a confined space.
- ☐ The work activity will modify fire loading or building structures such as walls, ceiling, aisle space, floors, and doors.
- ☐ This work activity involves installing or relocating a temporary facility/structure.

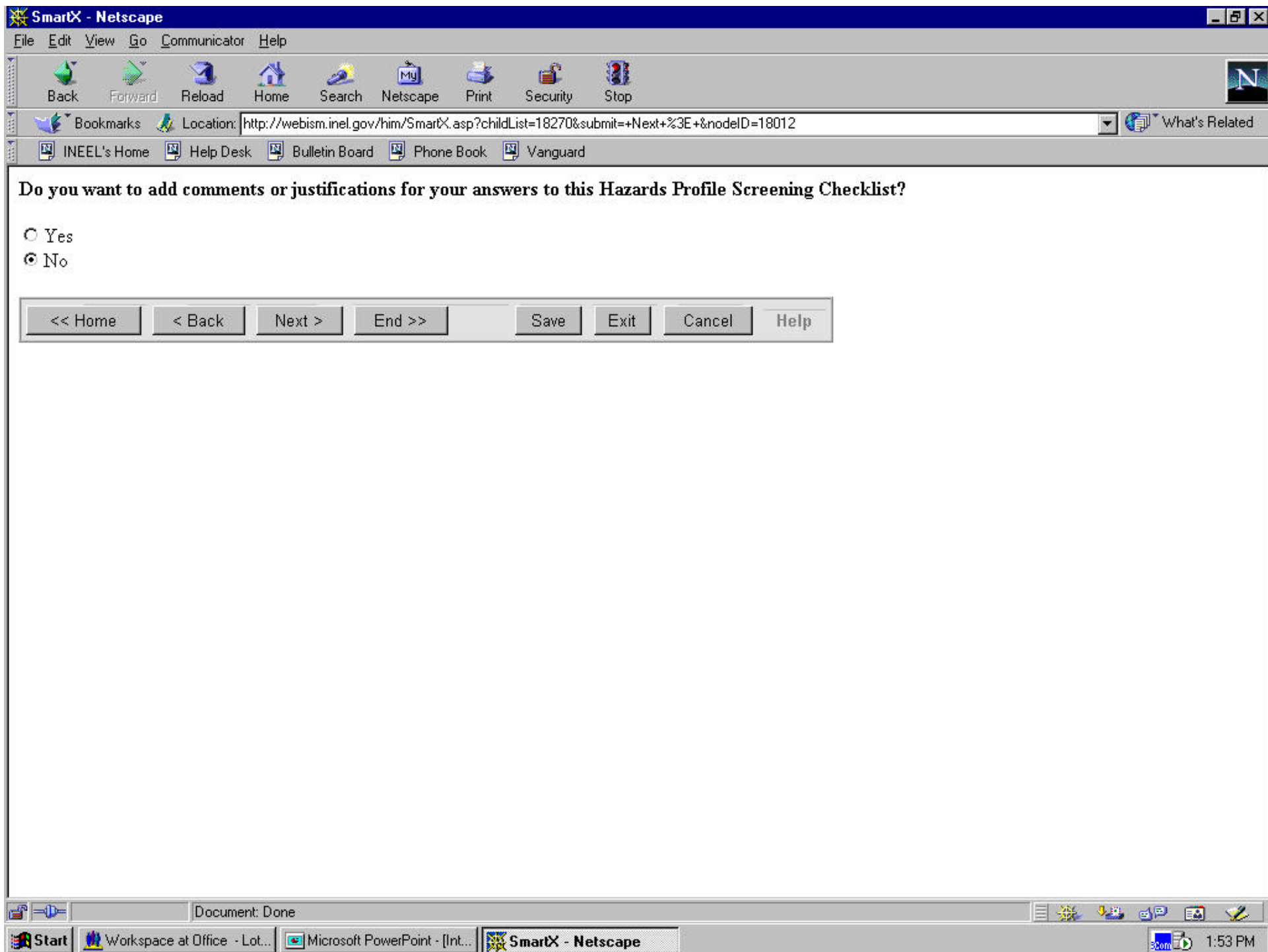
- ☐ The planned work is required recovery activities following an accident or a natural phenomena event.
- ☐ The work will occur in an area bordered by a radiological posting, barrier, sign, or label.
- ☐ This work activity involves use of radioactive sources or radiation producing devices, or devices that contain radioactive sources (e.g., radiography, x-ray machines).
- ☐ The work activity will involve repair, installing, modifying, or disabling safety equipment (i.e., eyewashes, emergency showers, etc. not related to nuclear/radiological safety protection systems).
- ☐ The work will involve repair, installing, modifying, or disabling emergency response equipment (i.e., SCBA or vehicle storage area, and emergency information signs).

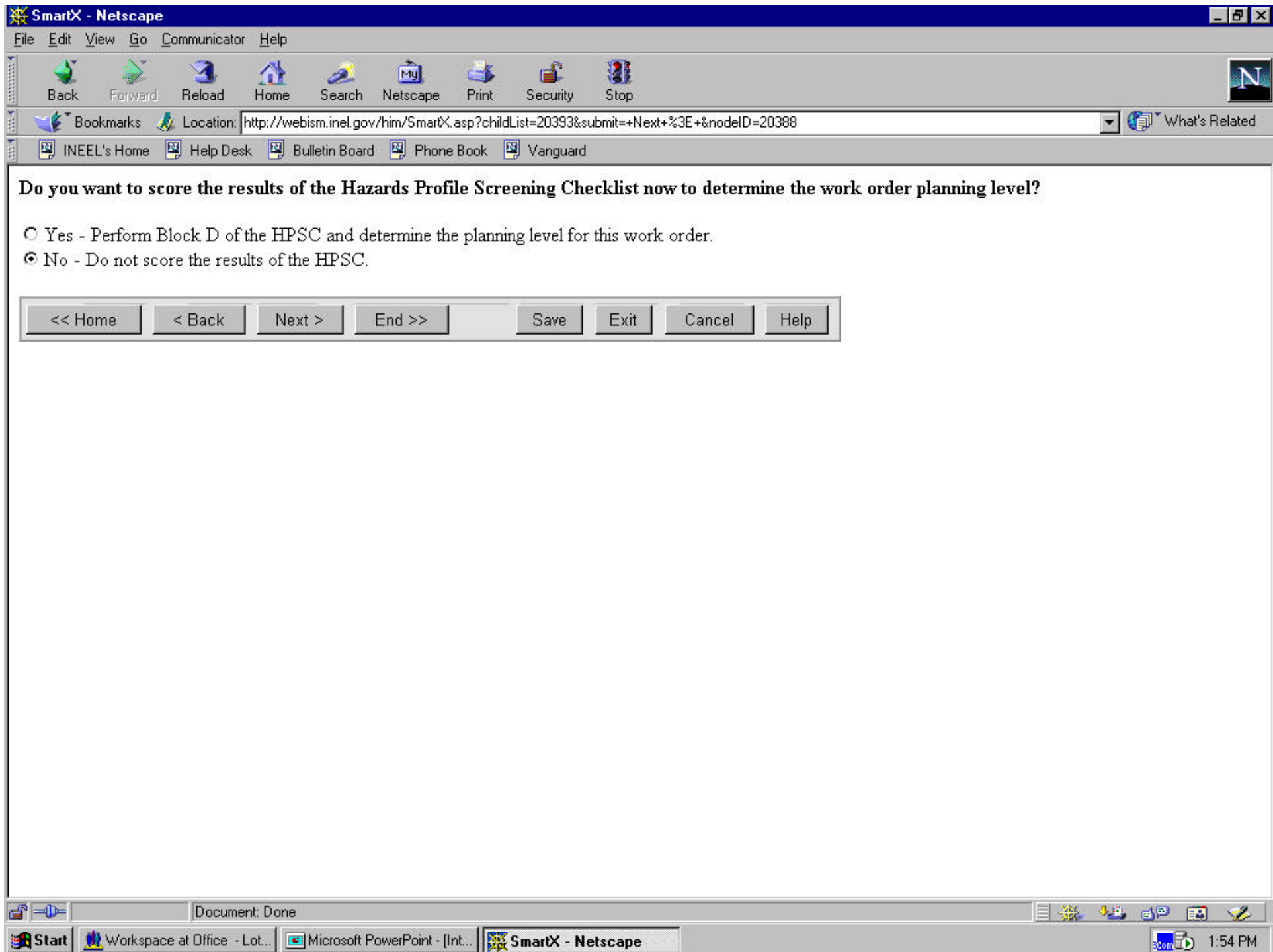
- ☐ The proposed activity is enveloped by an existing safety analysis, TSR/TS controls, and implementing procedures.
- ☐ This work will be performed in an area or adjacent to an area classified as a Criticality Control Area (CCA).
- ☐ The planned work is in response to resolve a discovered Unreviewed Safety Question (USQ) issue.
- ☐ The work will alter the consistency of the design requirements, physical configuration, or documentation of the SSC designated for configuration management.
- ☐ The work is associated with the Spent Nuclear Fuel Program and subject to DOE/RW-0333P (check with requester if unsure).

- ☐ The work will involve Quality Level 1, 2, or 3 systems.
- ☐ The work will involve changes to process computer software.
- ☐ The work will require Post Maintenance Testing.
- ☒ None of the above.









SmartX - Netscape



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Bookmarks Location: <http://webism.inel.gov/him/SmartX.asp?childList=17884&submit=+Next+%3E+&nodeID=19661> What's Related

INEEL's Home Help Desk Bulletin Board Phone Book Vanguard

EFFECTIVE DATE: December 13, 1999



HAZARDS IDENTIFICATION & MITIGATION CHECKLIST

Work Control Form No: 21391
Work Control Center: Training/Testing **Area: Test**
Date/Time Prepared: 10/26/00 1:50:10 PM **Priority Level: 5 - Low**
Planning Supervisor: John Lenartz Primary Owner: Debby Hopkins
Assigned Planner: Debby Hopkins

Block E for this HPSC has not been performed and the planning level is unknown.

HPSC Block A - Activity Information

Activity Title:
test

Document: Done

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